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Belmont Road  
James Hay



A.

An  
Inaugural Essay  
Upon  
Bilious Fever  
presented to the Faculty of Medicine  
for the  
Degree of Doctor of Medicine  
By  
James Hay of  
Virginia

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James Hay of Virginia

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## Introductory Remarks

The difficulty of acquiring medical knowledge through the medium of books has been acknowledged by the experienced Physician, and is but too painfully felt by the Student; he searches the records of medical science in vain for certain and indisputable precept, for determined and positive truth; doubt and uncertainty follows him in every step, contradictory theories and conflicting statements arrest him in every page he peruses, and after the most laboring research he is almost constrained to acknowledge, that the profession he has embraced, is indeed what the enemies have termed it "The science of conjecture".

Much of the uncertainty of which I complain, is no doubt attributable to the intrinsic difficulty of the subject; it has even been asserted that we can never expect a perfect system of medicine; but that as it may, we cannot offer that supposition as an apology for its present imperfection which can, but too palpably, be traced to other causes.

It hopes, within the talents, not the  
time

*[Faint, illegible handwriting on the left page of an open manuscript. The text appears to be organized into several paragraphs or sections, but the characters are too faded to transcribe accurately.]*

*[Faint, illegible handwriting on the right page of the manuscript, visible along the outer edge.]*

time, to take such an historical view of the subject, as was  
 also enable me to point out what those causes are, that have  
 thus retarded the progress of medical science. In reference,  
 however, to the particular subject which I propose to con-  
 sider in the ensuing essays, I will mention some which,  
 in my estimation, have had considerable influence to  
 that end. — Notwithstanding that, among the most  
 prominent, may be placed, an undue respect to an-  
 cient authority.

During the early ages, superstition  
 and credulity were the prolific parents of many errors  
 in every department of human knowledge, but in none  
 more so than in medicine; 'tis then we hear of amulets  
 and charms, the conjunction of planets, and of sidereal  
 influence; 'tis then that deluded patients gulped down  
 remedies almost too disgusting to be named, and believ-  
 ed them specifics, and when, in reference to that  
 time, Lord Bacon declared "that witches, and impostors  
 have always held a competition with Physicians", he  
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only perpetuates a ~~fact~~ ~~that~~ ~~star~~ as in humiliating  
opposition to the proud boast that our art is of divine  
origin.

If the remark of the satirist was authority  
or by fact (as there can be little doubt) is it to the writings  
of that age, that we are yet to look for medical infor-  
mation?—my allusion is not only to the Greek and Roman  
writers, but to those bleated compilers and hypothetical  
epagists who sprung up after the revival of literature in  
Europe, & whose theories ought, on this, to have descended  
to the "Tomb of all the Capulets"—or if remembered, re-  
membered only to be ridiculed. His, no doubt true,  
that the Greek writers described diseases that occurred  
at their time, with the greatest accuracy, and that in fact  
even to this day, their histories of many of the maladies that  
afflict mankind, are yet correct, but have not these histo-  
ries (as far as they are perfect) been introduced in modern  
medical literature? and if so, why should we seek for  
"truth in a well" when it is brought to our hand—why  
should the student pore over huge volumes of ridiculous  
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and absolute speculation merely, because he may find  
in the dark mass, some individual truths, which are the  
scattered barks of the mass, only, tend to show the vast as-  
sault in which they float.

"Dispersed rare manes in quagmire vast"

Yet the works of this age have been but too frequently the source  
from which the pursuer of mechanical science obtains his first  
inspiration (inspiration we are told always strong) and  
and he carries them with him, as ale he, after inquiry,  
having drawn them from a polluted source, they unques-  
tionably contaminate his views with error.

The chymist will tell you that the stagnant and  
green pool contains as pure water as the fountain, yet  
the bloodhead that drinks it, will find to his cost, that  
in getting the water, he has gulped down with it, all its  
impurities.

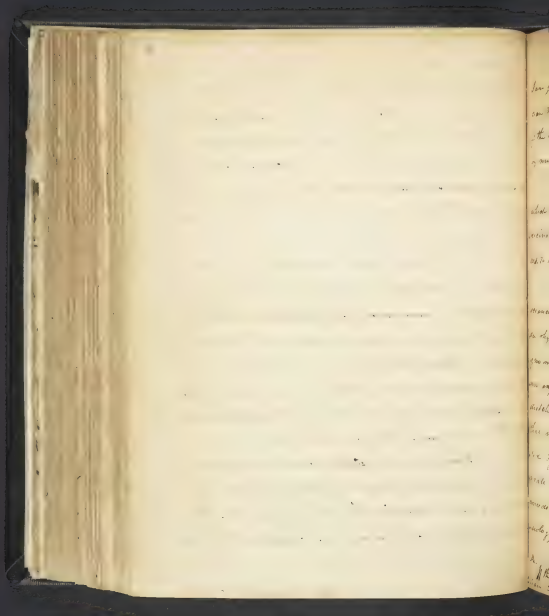
If it is contended that he who is unable  
to discriminate between the truth and falsehood, is  
willing to know I allow, can have no agency, within  
him.



misleading, or advances medical science, that the in-  
 fluence of his mind, will keep him in obscurity, it may  
 be so as a particular proposition; but I feel well assured  
 that as the alchemist, with all his art, cannot extract,  
 from the green pool, water without taint, so even the  
 philosopher's <sup>mind</sup> will seldom be free from the prejudices  
 of early association.

Another cause that has proved a most un-  
 fortunate fate for medicine is, that those who have con-  
 structed systems, "have never been contented in advancing  
 as far as they were conducted by observation" but seduced  
 by visionary theories, they have, upon the basis of a few  
 casual facts, piled hypotheses upon hypotheses, till  
 the monstrous fabrics of their fancies, have fallen from  
 their own rottenness. Thus have the great names, of a  
 Hippocrates, a Boerhaave & a Cullen, been perpetuated  
 almost as much by the injuries they have done to  
 medicine, as the benefits they have conferred. In  
 reference to the practice of my own country, I think

J.



I am justified in saying, that the footsteps of the Physician, that would regulate his practice in fever, by either of the systems to which I have alluded, would be traced by misery and death. (A)

To these prominent causes, I may add another which has been equally subversive of true reasoning in medicine; I mean — the application of the laws of other sciences to the explanation of the phenomena of life.

Physiology, however, is no longer a science of speculation, and the visionary fabric of theories, or, physiologists, those "great works of fancy," filled with words of no meaning, are fast fading, before the truths of modern experimentalists — and it requires no great stretch of the imagination to anticipate the time (and that not far distant) when physiology shall be supported by principles as undeniable as those which subordinate the physical sciences; — it must however be conceded, that the absurdities, which have disgraced Physiology, have had no inconsiderable influence in

retarding

A. If the severity of the above remark requires an apology, I beg to state, that I say solely — that theories & the system





relating the progress of medicine.

The causes I have  
enumerated have a general bearing, but  
I have now to mention one which such  
causes apply to our own country —  
it is — ~~that~~ the American dissent sects  
in information (in the main) from  
English books. It is no more a necessary  
truth to suppose the name of American writ-  
ing but it must be conceded that the  
English views are correct that the views  
recommended here in fact are weak  
and defective.

In writing of however, I  
was an individual who I have  
now conceived to my feelings, I  
should not indeed have excused myself  
into the character of a critic — I  
at present time in difficulties, I have



in our minds by the scientific  
method might be regarded as a defect  
in the imagination, & the remarks I  
am about to make.

If the systems of European  
philosophers are thus imperfect, if their theories do  
not explain the phenomena of fever, in an  
instance, and their practice is totally inefficient  
from what source are we to gain informa-  
tion? —

From our great and growing na-  
tion declared itself free — we severed not only  
the shackles of political but of literary  
bondage; no longer trammelled by authority fur-  
which it might be thought intolerant heresies to  
reviate, the writings of our Physicians, from  
cast upon their face, the impress of originality  
the spirit of enquiry thus commenced still  
exists & happily for us a name is not yet  
so consecrated but that the doctrine, sanctioned  
its signature may be combated without the  
implication of irreverence —

the great merits of Cullen & Thomson — Marc,

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"*Marcus dixit? Ita est*" — is not yet the motto of American Physicians. Hence I may safely say that the Philosophy of medicine is cultivated in this country with more liberal views than in Europe, and I am well convinced, in no part of this country, with more zeal and morality than by the professors of my own "Alma Mater."

To another source the American student may look without disappointment for knowledge, I mean to the writings of the British army and navy surgeons, who, during a long and disastrous war, were led by their duty, to witness the acutest forms which fever assumes, under a tropical sun. They soon found it necessary to forget, in their practice, the prejudices which their education in the humoral, spasmodic, and German schools had engendered, & resort to means, which the great disciples of "Rebilly and purescency" would have shuddered to employ. — They found it from sad experience, to be, a trifle less war to "combat a giant with a straw" and such is the estimation with



with which I regard their testimony, that I am  
free to acknowledge, that the first clear view that I  
had upon the subject a year, was drawn from the testimony  
of one of them<sup>B</sup> after having spent many anxious hours in  
sounding the basis of a nation, a breath, & a witness C.

But after all the difficulties are only deepened,  
minuted, now even, of the vast importance of some posi-  
tive principles, as a guide to practice in fever, — I shall  
attempt, to point out the causes, phenomena, and treat-  
ment of that disease or fever so frequently the ac-  
cidental scourge of my native state — and which it  
is most probable will hereafter cost me many moments  
of anxious solicitude, in prosecuting the arduous duties  
of my profession.

May I be permitted to offer to  
my instructors, the causes mentioned in the preceding  
remarks, as an apology for the errors of those that  
are to follow; Remarks — which unaccustomed and  
unfit composition — I should never have attempted

but.

B Johnson a Mexican climator.

C I regret exceedingly, not being able to procure Professor Chapman,  
book by the name





but in compliance with an institute of the University  
 — like Shakespeare's respectable knight I find  
 myself "compelled to give my reasons", but unfortunately  
 by the parallel holds no farther, like him I have not  
 reasons "as plenty as blackberries", but such as I have  
 got, I trust will be received with that forbearance &  
 charity which they will stand so much in need of.

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and of the sort is much wanted. I to our own of the book better  
 fitted than to Dr. Chapman.



## Bilious Remittent Fever

This form of fever is endemic to warm climates, and its usual type - to use the language of the schools, is a Synochus; but as I am inclined to believe, that the typhoid degeneration which but too frequently occurs is rather attributable to extrinsic causes, than to the essential nature of the fever; and as names have more than had much influence in practice, I am induced to object to this fever being considered a synochus, for the practitioners will have derived from the same source - that gave him the name, the action. "That we must always remember, in moderating reaction in the first stage of synochus that we do not carry our depletion method too far, for fear of the debility that necessarily occurs in the second stage." now as I believe that in most instances this debility is the consequence of unsubsided reaction, & that to prevent it, we have only to moderate excitement in the first stage, I would rather call our Bilious fever -  
Synocha



Lysocha - the name thus being an index, in a great measure to the doctrine; - for I most devoutly believe that the mortality attendant upon this shape of fever is to be traced to a dread of their long been debility & bestial handling of European systems, where we have tried, plans for the treatment of fevers, on animals laid down with as much precision as if the author had themselves panted under the influence of a tropical sun. & what is most extraordinary, the very indications they draw, are the deductions of theories framed upon the phenomena of fevers as they exhibit themselves - in their cold & humid climate, upon the sagas of a Lincolnshire farmer or a Dutch curate.

### Causes

For the sake of perspicuity; I shall divide the remote causes of bilious fever into predisponents and exciting, although the predisponent frequently becomes the exciting cause & vice versa - among the most prominent  
predisposing



depressing causes, are Solar influence a heat, cold  
 Intemperance, the depressing, passive, and all other  
 agents which tends to reduce the system below the  
 standard of health. The great exciting cause is  
 Marsh Miasma — The proximate cause of fever has  
 been a subject of enquiry from the earliest times. If  
 by the proximate cause, is meant those minute organic  
 alterations which produce the phenomena of fever,  
 we may safely say it has been a fruitless enquiry,  
 — but if it has reference to derangement of function  
 or structure, which are apparent by external symptoms  
 The experience of ages has enabled us to draw pretty  
 accurate pathological conclusions.

Like the fabled hydra of antiquity,  
 fever rears its many monstrous heads; how incapable  
 then any general proximate <sup>cause</sup> must be to elucidate the  
 phenomena it displays in its diversified forms, we  
 are compelled when we reflect — that the systems of  
 a Stahl a Hoffman a Boerhaave a Cullen, Boer





a Darwin & Bush & a Wilson, have also been tried and found wanting. They have indeed, attempted to do what in the nature of things was impossible to be done — We are told of Boerhaave that in collecting from authors all the symptoms then enumerated, as fever, and rejecting such as were not present in all fevers — he was astonished to find that they resolved themselves into the three following, only viz. Thirst, Rigor, and heat, none of which were established that even these do not occur in all fevers, & in fact, that there exist, not one symptom of fever universally present<sup>12</sup>. If then there exist no pathognomonic signs of fever, how can a general proximate cause be ascribed?

There does exist however certain indisputable truths which have been established by the experiments of modern Physiologists, which throw much light upon the variations of the animal economy, and by which we are not only able to explain the phenomena of the

Fever.

<sup>12</sup> Forsyth, & depositions.



human machines during health, — but also the effects of morbid agents during disease. These truths I shall endeavour to support my views, and by them, endeavour to point out <sup>the</sup> effects of the predisponent and exciting causes & thus pave the way to clear indications of cure.

Among the predisponent causes of bilious remittent fever — I have placed solar influence at the head of the list. I may indeed say — that all the others are only accessories without it would be unavailing: while it alone may both predispose & excite.

The effects of long continued heat is to produce debility in all the animal and vital functions, but it exerts its most baneful influence upon the biliary excretions. — The law of sympathetic action or consent of parts, by which the Physiologists explain many of nature's phenomena, must at the present time be conceded, as an undeniable principle, though we cannot see what this sympathy is; we only know it



it from its effects, and can no more explain its nature than the Chemist can affinity - The Promethean, gravity in the mechanic elasticity, it is a law of nature, unerring, and like many of her works too beyond our present scrutiny - It has been reserved for Dr. J. Johnson\* the elegant author of a work on tropical climates, to make a particular application of this law in solving the nature of the biliary derangements of warm climates, he shows the existence of a strong sympathy between the skin & liver - which he has called "Cutaneous Hepatic sympathy" and which in my estimation very satisfactorily accounts, for many of the Hepatic affections, incident to long application of heat. Another compelling note of important axioms between the skin and alimentary canal.

The primary effect of heat is a stimulus to the secreting organs - its direct impression is upon the skin, and sympathetically upon the glandular system & chylific viscera; now the effect of stimuli

\* The edition of Dr. Johnson's book that I have, is the one edited by Poyson, Chapman & Phipps. I entered upon the perusal of the book with the conviction that it must be of uncommon merit to merit the sanction of their names, and can only say, that in the whole course of my medical studies I have never read a book which has given me such unsolicited satisfaction.

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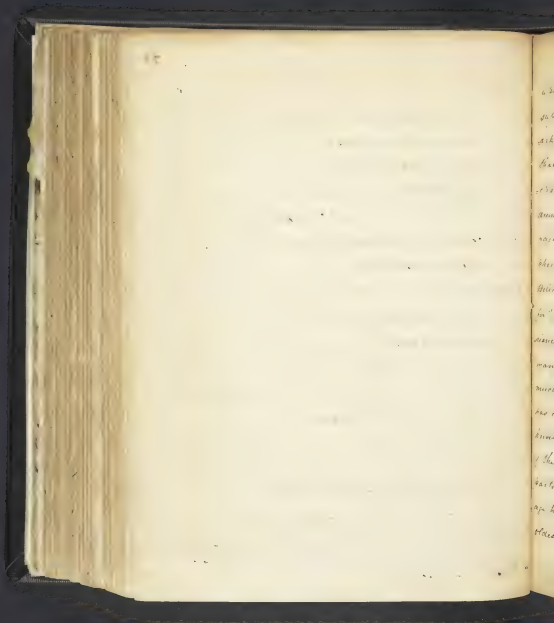
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is except, it to produce debility, and it will be found that  
 after a long application of heat, the secretory organs, reduced  
 to a state of indirect debility, either have their functions  
 paralyzed or yield vitiated fluids, in the place of  
 their healthy and natural excretions, and none are es-  
 sential to this vitiation as the bile. The stomach too  
 the great centre of both healthy and morbid assimi-  
 lation, will give under the debilitating agency of heat  
 and anorexia, sour excretions, flatulence, and all  
 the evidences of debased gastric secretion, with in-  
 dence its derangement. The bowels also cease the faithful  
 discharge of their healthy functions, and constipation  
 or dysenteric looseness ensue. In this state of body  
 most persons find themselves even though a  
 few, so called habits during the Autumnal months in  
 Virginia, and nothing but an exposure to the exciting  
 cause is wanting, to produce Bilious Fever.

It would be worse than useless to use any argu-  
 ments to prove the debilitating effects of intemperance

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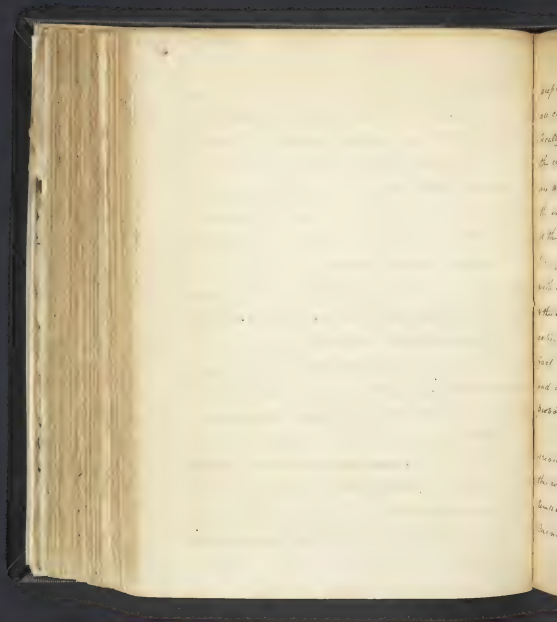
in between a lupine climate.





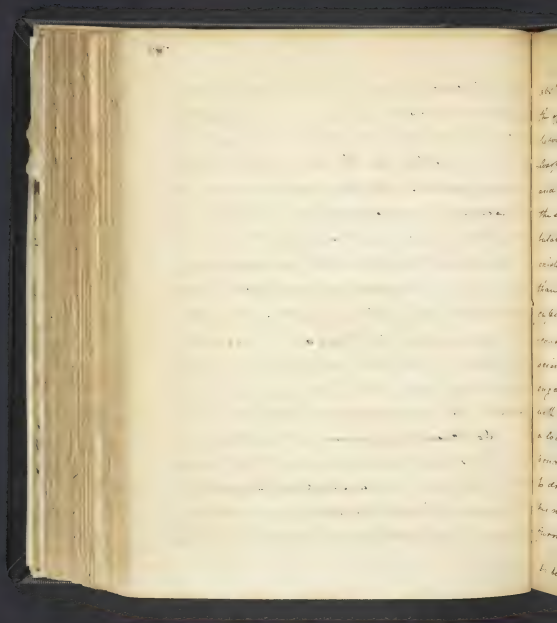
upon the system generally, for it is apparent to the most superficial observer; it may, however, be proper to remark, what I believe is well established by experience, that while the frame universally suffers from debility, the liver is the organ, which is peculiarly affected in drunkenness; it will at once be perceived how pale and exposed to the disorganizing influence of great atmospheric heat, must be intemperance, in predisposing to the Bilious epidemic. I am aware that a specious apology for "free libation," has been urged upon the score of experience - they will tell you that they daily witness many persons arriving to great old age after a life of much indulgence; and I must acknowledge that it has come within the scope of my own observation to know three men, who lived and died upon the banks of the Chickahomony swamp one of the most unhealthy parts of Virginia, who lengthened out their pilgrim age to the uncommon term of nearly a century, the oldest of whom for the last forty years of his life, never

Drops



"dressed his coat at night" "killed in the mantling bowl  
 all cases, were drowned". The next oldest was emphati-  
 cally a "bon vivant" and the last never forgot, during  
 the course of his long life the old virginian habit of  
 his anti-ogmatic. But these examples no more prove  
 the inaccuracy of intemperate habits, than the fact  
 of the Spanish juggler of Paris licking hot iron, proves  
 that fire might be applied to the animal fibre  
 with impunity. The sensibility of men differs in degree  
 & the stimulus under which one would sink would be  
 ridiculous another - if Physicians have used this  
 fact to point out the proper use of aromatic spirits, they  
 had done more good, than by the unequal fire disap-  
 probation they have generally expressed of its use at all.

Do? Rush, always pleasing in his writings, not un-  
 frequently permits his imagination to lead him into  
 the wildest speculations; in speaking of the effects of  
 temperance on the mind, he relates an anecdote of  
 Carneades, a noted Philosopher of Greece, who not only  
 abstained



abstained from food and drink, but absolutely increased  
the effects of inanition by taking a purge of belladonna  
before he disputed with Chrysippus, a distinguished Phi-  
losopher of the sect of stoics. He also ate upon this  
and other facts until he is led to the conclusion that  
the elegantly usually displayed by the Scotch, is attain-  
able to their barley broth. I question whether there  
exists in the world a set of more insatiable gluttons,  
than compose the literary galaxy, at this time, in the  
capital of Scotland. If we are to credit the ac-  
counts of travellers, the "Cart de government", is there a  
scinner, and while we might suppose, the philosopher  
engaged in his deep and recondite pursuits - the Bot  
with "eye with fine fuzzy rolling giving to airy nothing  
a local habitation and a name" or the pious divine  
brooding over huge tomes of polemical divinity  
to draw from the well, drink for the thirsty souls of  
his needy flock, they are in fact, seated round a well  
furnished table at "Dinner, the bower of politicians"

Chippeling

to be Peter's letters to his kind folk.

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disputing the knotty point, whether, Punch is better made  
 of Lemon or lime juice. The truth is (as I before ob-  
 served) it depends much upon the original tempe-  
 rament of the man, for if we are told that Newton  
 lived upon vegetable & arant water when he composed  
 his book on optics, we all know that the great William  
 Pitt took good care that his body should not suffer  
 while his gigantic mind wielded the destinies of a  
 world. but let it not be supposed that I am an  
 apologist for intemperance. That bane of morals and  
 of health - my object is merely to propose the ques-  
 tion - how far the use of distilled spirits, is con-  
 sistent with health & temperance; in answer to  
 which I say - if we find its use attended by tonic &  
strengthening effects it ~~is~~ is not only innocent but ad-  
 vantageous; if to the contrary, momentary excite-  
 ment is followed by debility, you may conclude, as  
 then that too much has been taken or that it is altogether  
 improper & if in the smallest quantity it -

produces,





deleterious effects - look upon it as Nature's caveat that you drink out at all. In conclusion - Intervention next to solar heat is the most powerful, pre-disponent cause of Billous, Fever.

The tendency of transition, poverty, the depressing, persons &c. to debilitate is sufficiently <sup>p</sup>arent, without farther remark. - There is one cause which can scarcely be called either pre-disponent or exciting, but rather the means by which the ~~pre-disposing~~ <sup>exciting</sup> causa is sometimes enabled to act, easily arising. - That early rising should be inimical to health, is a paradoxical assertion for which I am bound to give my reason. No one, who has lived in our warm climate, but has witnessed the dense fogs of our autumnal months; these fogs, the products of the perishing days exhalation returned to the earth by the cold vapors occurring and night, begin to rise at the approach of day charged with noxious miasma. That inimical and terrific source of fever, he then that keeps within doors, until the sun has dissipated the fog, certainly

Lancet.



stands a much better chance of escaping the febrile poison than he who exposes himself to its influence by early riding. The dose later in the season is the more would prove a better prophylactic than all the antipyretics that were ever gulped down in Virginia. Having thus shown how the predisposing causes render the system liable to fever, in the next place, proceed to make some remarks on the exciting cause.

### Miasm. Miasma

This subtle poison, the frightful parent of malarial fever, sprung from the palled box of Pandora, is perfectly inconspicuous to the senses, and is only known by its dreadful effects. The Chymist in vain attempts to detect its presence, the highest exertion of his noblest intellect resolves the atmosphere, loaded with its particles and the elastic air of the mountain, into the same constituent principles. Whether during the putrescent decomposition of vegetable and animal substances, or noxious gas is developed, the single parent of the whole family



family of fevers, or whether different species contain-  
 ing are produced = has given rise to much angry dis-  
 pute in this country. — He who reads attention  
 to the accounts of the endemic fevers of warm latitudes  
 will probably assent to the first proposition; he will  
 find the common bilious dysentery, in some cases, the  
 appearance of typhoid fever, and during the prevalence  
 of the last, cases of common intermittents, as the pa-  
 tient is cured, from debility and previous derangement,  
 come to the word fever, or by his general good health  
 only liable to the other, and this opinion may be sus-  
 tained by the following (at least) plausible arguments.

If, as we are informed by Chymists, that  
 an additional specific gravity <sup>p</sup> so small as not to  
 be distinguished but by the nicest test, will produce  
 such a difference in the properties of the hydrocyanic  
 acid, as to make the same dose in one instance a dead-  
 ly poison and in the other a safe medicine, why, may  
 not the great chymical laboratory of nature, so alter



by concentration a diffusion, the same morbid cause  
is to produce in the first place yellow and in the next  
bilious or intermittent fever. ? again, apply a plate of  
metal iron so far from the skin that only slight pain  
and parietal inflammation ensue, apply the same  
plate directly to the skin, how different will be the con-  
sequence, the cause evidently the same, It is my de-  
cided opinion therefore, that although the cha-  
racteristic phenomena of the fever are different,  
it does not necessarily follow, that there should be  
an specific difference in the exciting cause.

After all, it matters not in a practical point of  
view whether one or many specific causes produce  
the varieties mentioned, the treatment will neces-  
sarily be as different as the symptoms. It should  
now be my endeavour to point out when these sym-  
ptoms are which are aggregated ~~constitute~~ bilious <sup>re-</sup>  
mittent as it commonly occurs.

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### Symptoms of Bilious ~~Intermittent~~ Fever.

After an exposure to the exciting cause, it commonly happens, that some premonitory signs warn the patient of approaching sickness, such as nausea in the morning, yellow & furrowed tongue, slight shiverings, alternated with flushes of heat, wandering, pains, capillary and glandular. If timely precautions are now taken a regular attack of fever may be warded off, but unfortunately most persons refuse from an aversion to medicine or under the vain hope that their slight uneasiness may pass by, use no remedy, and on the evening thus they are seized with a pure bilious fever. These premonitory signs are, however, not always present, and the attack supervenes upon the immediate application of the exciting cause.

The fever is ushered in by a cold stage, generally of short continuance & seldom amounting to rigor: or as sometimes happens the hot stage commences the attack; the patient now complains of great



pain in the back, and nausea - probably from the first  
 accompanied by bilious vomiting, the pulse beats strong,  
 hard, & quick; the surface is dry and hot, the urine  
 scanty and red colored, the bowels costive, the ton-  
 gue covered with white fur, while pain in the head  
 especially over the eyes, is but a prelude to the  
 suffering, that the next exacerbation brings, with  
 it, a slight remission having occurred on the morning  
 after the attack. the progress of the next day is char-  
 acterized by an aggravation of every symptom.

On oppression about the precordia is now  
 complained of, accompanied by great restlessness  
 and anxiety, the skin becomes exceedingly hot, the  
 bowels remain obstinately costive, or dysenteric  
 irritation disturbs the patient. the mouth is dry  
 and parched; the patient suffers with thirst, which  
 he can in few instances quench, without producing  
 great nausea probably vomiting, as the middest  
 fluid taken into the stomach offends it. Between

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Band & Clock P.M. The fever has reached its acme, the pulse at the wrist, more beats, quick, strong, hard, and bounding, while the patient in the occasional agony that he suffers in his head will tell you, that at every throbs, it appears to be raised from the pillow in severe cases delirium supervenes, the pupils of the eye become torpid, and an intolerance <sup>of light</sup> ~~of light~~ evinces the patient's great distress. If delirium has not occurred you will find the patient very disponding. He is convinced, that his sickness is fatal, and it will require all the skill of the Physician, all the kindness & attention of his friends, to calm and compose his mind. This last symptom is an universal concomitant of every severe hepatic affection.

Should the remedies used fail to arrest the progress of the fever - this state of things cannot long continue, and after alternate remission and exacerbation - the remissions frequently so slight as scarcely to be perceived, about the 5<sup>th</sup> or 6<sup>th</sup> day the patient, worn out

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by violent reaction, sinks into a state of alarming debility—again the power of life renews the struggle and on the day subsequent to the change, the increased volume and tension of the pulse are but the last indices of a power soon to be extinguished. The fever now reigns triumphant, delirium changes to stupor, the pulse flutters, and becomes according to Reid, the surface is still far above the natural standard, the gestures of the patient point out the distention about the region of the stomach & liver, the bowels are still obstinately costive or of discharges occur they are black, green, and extremely fetid. The tongue is covered with a brown & thick crust, and in very bad cases the skin now becomes yellow, the cornea of the eye is dimmed of the same saffron hue and a cadaverous smell is exhaled from the body.

If amendment does not occur in a short period—we can only expect, these symptoms, the immediate precursors, of almost certain dissolution.

Continuum

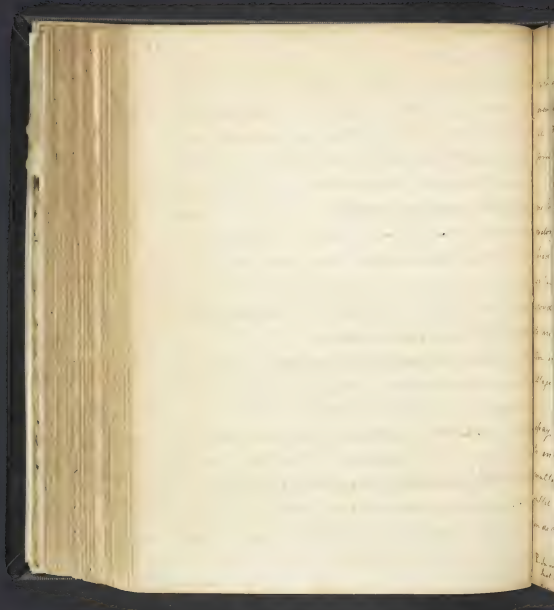
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The dimness & general lurching of the muscles, prove that the function of the brain now ceases, the stomach convulsively ejects its black and grumous contents, involuntary alvine discharges of a foetid nature occur — the capillary vessels having lost their energy eject their contents, and vitæces & ptoectia, purple a skin already yellow with absorbed and vitiated bile — cold — clammy — and partial sweat bedews the forehead, the eyes grow dim, and in a convulsive struggle death claims its miserable victim.

Happily, the case I have exhibited is an extreme one — In our country practice, under proper remedies we shall find the fever on the 5<sup>th</sup> & 6<sup>th</sup> day remits tolerably; and the remissions increasing in length, it may terminate in an intermittent. Or the change from the first to the second stage may not be accompanied by aggravation of bad symptoms & the Physician will in that case have only to contend with simple debility,

Such



such, indeed, is generally the case, in the country, but even under the foot of our mountains, we sometimes see Bilious remittent assume the most malignant forms &c.

It will be found, by reviewing the symptoms that the fever is, in its first stage, essentially inflammatory with topical determinations to the liver and head - and in proportion to the morbid excitement exists in the first, so will be the depression in the second stage. The indications of cure, then are plain to moderate excitement & relieve topical affections in the 1<sup>st</sup> and support excitement in the 2<sup>d</sup> stage.

In the short limits of an inaugural essay, I hope it will not be expected at my hands, to enter into a minute investigation, of the multifarious remedies, that are calculated to fulfill either the one or the other indication, and on declining to do so, an ignorance of the astrophlogistic

P. In my own neighborhood lived about 3 years, back a man diseased with Bilious fever, but at the foot of the Blue Ridge exhibiting such symptoms as would



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a stimulation is an affair down by authors, with-  
out, I trust, being imputed to me.

I shall therefore content myself by  
a few remarks upon some of the most prominent  
remedies, and conclude this part of my subject by  
a general summary of such practice as I would  
institute if called upon to prescribe for a hot  
out labouring under such a fever as I have de-  
scribed, for the Epidemic variations of fevers, are  
so numerous that a volume would scarcely  
be service to enumerate them a normal stimulation  
it is therefore to be understood that my remarks  
apply only to pure bilious fever. In the 18th of the 19th

3d Lord's Letter

There is no remedy upon the use of which more cau-  
tion has been given, and more dread expressed than  
the use of the lancet in fever of any kind by European  
writers; and more especially, when they pretend to lay  
down rules for its action in our climate.

Stoness



"*Bonus medicus nunquam sanguinis humani*  
*"prodiges,"* — is an aphorism of *Forster*,  
 which has been supported by those whose minds have  
 been clouded by a dread of their debility as *ortho-*  
*inacoealis* by *Gullen* and *Brown*, taking it for gran-  
 tes their debility (and their low grade) must  
 necessarily follow the excitement at the commencement  
 of fever, a pupil of the above school has even as-  
 serted "that we must only moderate excitement by  
 clearing the *prima via* — without by thus supervening  
 & then break the fever as such." What shall we think  
 of such a doctrine? They say, indeed, what is  
 in fact true; that fever is not colder, to become  
 more rapidly than in cold — and that debility  
 sooner supervenes — but if the debility is in con-  
 sequence of violent action in most fevers, (and  
 I am satisfied it is the case in this) and is not  
 to be considered as a positive feature of the dis-  
 ease; the practitioner will perceive how —

improvement by

A. Wilson. on fever.





imperatively, every means calculated to reduce action is demanded at the very onset of the complaint and none answer that purpose so well as blood-letting. Not only relieve the head from the great determination to it, which always, without exception, occurs in this fever - but by relieving the congestion of the portal circle, exerts its most beneficial influence upon the very organ most agitated - I am willing however to concede that it is a remedy that must be used with discretion and at a proper time. The time is evidently during the 1<sup>st</sup> 2<sup>nd</sup> and perhaps the third exacerbation of the fever - and when used let a decided impression be made, more blood can be taken at the 1<sup>st</sup> than 2<sup>nd</sup> or 3<sup>rd</sup> exacerbation and at the 2<sup>nd</sup> than 3<sup>rd</sup>. by a decided emipision - I mean that the abstraction should be in such amount as to relieve at the time the great pain in the head - a symptom by which we can best regulate the practice.

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if, however, instead of using the lancet thus, the  
 Practitioner bleeds during the remission, I have very  
 little doubt that in some cases, even death might  
 be the consequence - and is an evident injury.

### Cold water

How far the practice of cold affusion or aspersion  
 may be proper in fever of local determination (or  
 to use a language I hardly comprehend) a fever  
 which is not Idiopathic - is a question which has  
 been agitated - Believing as I do that there exists no  
 such thing as an Idiopathic fever, but that all have  
 local determination or commencement: I have  
 only to satisfy myself that there exists nothing in  
 the peculiar nature of bilious fever, which would  
 render the application of cold to the surface deci-  
 dedly improper - to conclude - that as the practice  
 has unquestionably been successful in other fevers  
 it may be so in this - Now by the doctrine of  
 Calaneo Hepatic sympathy (as promulgated also by  
 Hahnemann)



Johnson) and to which I give my most hearty consent. it is proved that any agent acting on the skin produces a similar & asynchronous effect upon the capillaries of the liver. and as we are assured that the effects of cold affusion during the exacerbation of fever, is to ameliorate the condition of the skin by abstracting morbid heat - relaxing the constricted capillaries - and thereby inducing a diaphoresis - I conclude that a similar effect will be produced upon the liver - congestion will be relieved, a more healthy secretion of bile will follow of course - and its ultimate effect might even be a solution of the fever. I should therefore not hesitate to use the cold affusion - a remedy, I am convinced, too seldom directed in this country.

Mercury

Calomel is decidedly to the southern practitioners what Meade said of opium the 'Magnum Dei Donum!'  
But



but like most of the great benefits conferred on mankind,  
it has been abused; on this account alone I have  
thought proper to make some remark upon it in  
this place — Its peculiar action on the glan-  
dular system, and especially the liver, its sin-  
gular property of moderating the inflammatory dis-  
eases, - renders it the appropriate remedy for many  
of the diseases of warm climates, - and above  
all for the fever under consideration; in fact,  
there is not in the whole range of the Materia Me-  
dica a remedy that can be substituted for it —

Let it not then <sup>be</sup> ~~done~~ the confidance of mankind  
(the learned Physician will always know its value)  
by the abominable abuses, which have occurred  
in its use. When I hear of Palle's opium-pale do-  
ses of calomel, being given: I have little hesita-  
tion in saying, - that the patient is treated by one  
stupidly ignorant or by an experimentalist.  
barbarously inhuman, who deserves the reprobation.





of every medical man who regards the honor  
of his profession.

### Nitro-muriatic acid bath

I am led to believe, from Doct. Scott's account of  
the Nitro-muriatic acid bath - that it would  
prove a powerful adjunct in the cure of bilious  
fever, used especially in those cases where mer-  
cury cannot be used - its action on the system  
is much like the last mentioned medicine,  
and we are told by Doct. Chapman<sup>(9)</sup> that the  
internal exhibition of it along with the bath  
has been resorted to by him, exactly in those cases  
where mercury was indicated, but which from  
local circumstances could not be given - and  
always with decided advantage.

"The Nitro-muriatic acid bath (says Doct. Scott)  
appears in a particular manner, to affect the  
glands, and to alter their secretions, and in this  
sense a great part of its value, in dyscrasias,  
"

<sup>(9)</sup> See his Therapeutics, -

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"If the liver seems to depend, it increases the perspiration and opens to great extent." it is said also by sympathetic action on the bowels to induce catharsis = if such indeed are its properties, it surely has not met with sufficient attention.

### Opium

The great discrepancy of opinion upon the use of opium, has left me I confess in a state of some indecision; I am rather inclined to believe, however, that in conjunction with the Tartar-Emetic & Calomel = it frequently produces an aphrodisiac - without increasing the distressing pain in the head = so constant a symptom in bilious fevers; but when given alone as an anodyne in the first stage - I should rather apprehend evil than beneficial results; and if any artificial means, other than a quiet and dark room, is necessary to procure sleep: I should prefer any of the other articles, of the same class = such as  
 Comin



Convincedly as I am = that Hoffman  
 and Co. than I am.

In the second stage = it answers better as a  
 remedy = & is sometimes imperatively deman-  
 ded - taking good care at all times to observe any  
 costiveness that might supervene on its use by laxa-  
 tives = as an excitant given with wine, not as the  
 & C. medical opinion is too decidedly in its fa-  
 vour for me positively to deny it merit, at the same  
 time I am inclined to believe = that its effect is  
 rather to place the living solids in such a state as  
 to render them less sensible to the action of the viscer-  
 al fluids = and thus enable the wine not alkali-  
 se with which it is combined, to produce their  
 solvent effects. he, however, who like myself ~~forms~~  
 his opinion of a medical case subject = from books =  
 rather than by a careful observation of the modes  
 of operating a medicine at the bedside will be  
 liable to errors of judgment which he will candidly  
 acknowledge

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acknowledge if they prove unsound in application.

### Part.

Next, the specific remedy of intermitting fever, I apprehend so useful as a preventative to relapse in this form of fever; — the gastric is habitually so constant an attendant on bilious fever, renders it almost impossible for the patient to retain any preparation of the article in his stomach, and when retained, it induces during convalescence a febricula, calculated rather to hinder than hasten recovery. I would therefore substitute in its place, the Colombo — the preparations of iron and the mineral acids, of the last, muriatic acid is to be preferred, — on account of its particular action on the liver.

Having thus offered my opinion upon the principal articles used in the cure of bilious fever, I conclude the subject, by a short summary of the practice I consider the most advisable in the treatment

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this distressing complaint.

If called to the

patient either on the 1<sup>st</sup> 2<sup>d</sup> or 3<sup>d</sup> day - use the  
 lancet at the height of the exacerbation, unless  
 a decided impression is made, how far it may  
 be proper to repeat it - must be left to the judgment  
 of the practitioner - if the fever is Epidemic the na-  
 ture of the prevailing symptoms must be his guide,  
 if no epidemic irregularities alter the nature  
 of the fever & the first bleeding has not produced  
 the effects anticipated - bleed again - if the pain  
 in the head still continues, violent, resort to leeches  
 bleeding with leeches or cups & apply cold  
 water or sea water to the head - with cool applica-  
 tion if the heat of the surface is above the natu-  
 ral standard. If vomiting is present, a pint  
 nature in the first place by copious draughts of  
 warm water or chamomile tea, & then use a vis-  
 cinous - the effervescent draught, or any appropriate  
 remedy -

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remedy to quiet gastric Irritability - Calomel will sometimes produce this desirable effect when all other means fail - at the first in conjunction with the bleeding - but Calomel becomes as a pump, in large doses followed by salap in the belly: to do a May<sup>r</sup>. Let the quantity of medicine given be such as to produce copious catharsis, & the next 1 lb Calomel in combination with barbas are known, and if the practitioner thinks proper with a small portion of opium - for the purpose of producing a specific action on the liver & skin - if however, danger is apprehended from the first after having premises bleeding - place your dependence on the Calomel so used as to produce its specific effect. it will seldom be found in any case of bilious, however aggravated - that it will not yield to mercury thus employed. † After all, a resolution of the fever does not take place - you are to be guided in the second stage in the use of -

but it is now to be used -



of the stimulents, by the state of the symptoms. If  
coma exists, - shave and blister the head - cut off the  
hair - if, after the head has been shaved, some-  
times, procure relief - sleep must now be obtained by  
opium. & at the same time that you use the Sol. Alk:  
vin. Colic. do not neglect to open the bowels, by Ca-  
stors - use at this period the warm pediluvium  
of Nitro-muratic acid - & am watching every sym-  
ptom that arises, - am your endeavours, to remove  
or neutralize it - for every inch the disease now  
obtains the Practitioner loses an ell; Nature  
yields when the disease changes from the first  
to the second stage. & the battle is now amphi-  
biously between death & the Doctor. & it must  
be fought with obstinate pertinacity, and if  
we must yield let it be by inches - & conclu-  
sion - should the Doctor prove victorious, his  
remaining care is to prevent relapse, for  
which purpose - he is to direct a, properly regulated  
diet -

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dist. consisting of such articles, as are easy of digestion at the same time that they are nourishing in small bulk - with the due administration of tonics - as. Colombr. the preparation of Iron, the mineral acids. & with a due regular exercise - carefully commenced & properly persevered in till perfect recovery ensues.

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After having perused the pages of my essay I have set down to myself for its imperfection = but why should I do so?

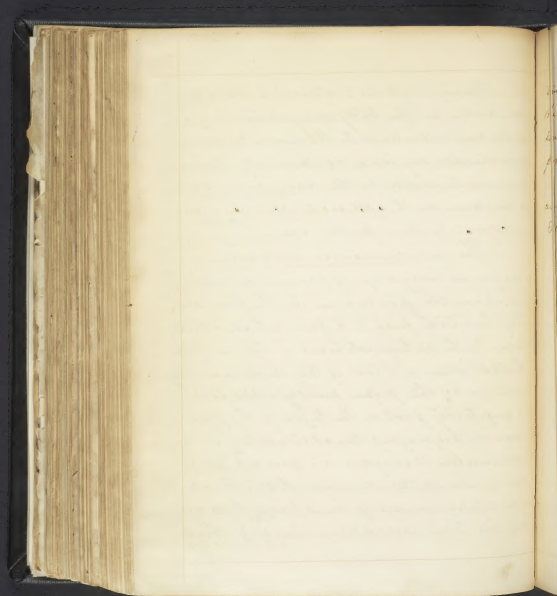
"Juvenis arcum flectere tentat ille Lybis"  
and if I have failed - I am well assured that those who will have the benefit of my arduous labours will not expect perfection from a Lybis. I offer it, therefore, with all its imperfections in its "head" merely as a sort of *prima facie* evidence of some attention to my studies, and if it is accepted as such, I have gained all I need propose to myself in its composition.





Having neglected to advert to the use  
of blisters in the body of my Thesis - I as  
a proper attention to the Lectures, now  
requires all my time exclusively leaving  
me none to devote to the drugging of copyists.  
I beg leave in this place to offer my opinion  
in regard to their proper use.

The indiscriminate application of  
blisters in every stage of fever, is a most  
reprehensible practice = in the first stage  
they but add fuel to a fire, which already  
burns to the extinguishment of life - if in  
the last stage = I fear if they do no harm they  
do no good; the proper point of application  
is confessedly just on the turn of the fever  
when by keeping up the excitability of the  
extremities & surface we prevent congest-  
ion of the vital organs: Doct. Rush  
has stated in one of his essays (I do not  
at this time remember which) that  
the



time for applying blisters is within  
the range of forty hours, when the voi-  
lent reaction begins to subside & before  
prostration has occurred.

When thus used blisters rank  
among our most efficient remedies, in  
Fever.

